TUESDAY SEPTEMBER 19, 2017

Symposium:D1

Session Title: NANOSTRUCTURES

Chairp	erson: Ar	Submission ID		
AM2:11.00-13.00	11.00 11.20	In-situ Small Angle X-ray Scattering characterization of nanoporous materials for actuation and energy applications	686	Keynote
	11.40	Cubic? No, thanks!	2218	
	12.00	X-ray nano-diffraction analysis of 3D strain state in core-shell semiconductor nanowires	1950	
AM	12.20	Laboratory pre-screening of processes at the nanoscale for dedicated synchrotron insitu SAXS/GISAXS experiments	1203	
	12.40	Monitoring TiO2 Crystallization Kinetics using Synchrotron Radiation Diffraction	43	
13.00-15.00		LUNCH		
Sessio	n Title: SP			
Chairp	erson: Ul	llrich Pietsch and Mehmet Alper Sahiner	Submission ID	
Chairp	oerson: Ul 15.00	Ilrich Pietsch and Mehmet Alper Sahiner XAS/XES studies of advanced materials	Submission ID 193	Highlight
				Highlight
	15.00	XAS/XES studies of advanced materials Chemical and morphological heterogeneity in zinc oxide thin films under humidity	193	Highlight
	15.00 15.20	XAS/XES studies of advanced materials Chemical and morphological heterogeneity in zinc oxide thin films under humidity treatment	193 597	Highlight
PM1:15.00-17.00	15.00 15.20 15.40	XAS/XES studies of advanced materials Chemical and morphological heterogeneity in zinc oxide thin films under humidity treatment In situ hard x-ray photoemission spectroscopy of metal/PMN-PT interfaces	193 597 2086	Highlight
M1:15.00-17.00	15.00 15.20 15.40 16.00	XAS/XES studies of advanced materials Chemical and morphological heterogeneity in zinc oxide thin films under humidity treatment In situ hard x-ray photoemission spectroscopy of metal/PMN-PT interfaces Understanding the role of cerium oxide in H2O2 dissociation by HERFD-XANES Combined XAS and XES study of Mn and Co valence and spin states in TbMn1-	193 597 2086 697	Highlight

TUESDAY SEPTEMBER 19, 2017

Symposium:D1

Session Title: CATALYSIS & NANOSTRUCTURES

Chairperson: Lucia Amidani and Oskar Paris			Submission ID	
	17.30	Intermediates of electrochemical water oxidation: how they come and how they go	2545	Highlight
PM2:17.30-19.30	17.50	In-situ Ultra-Small-Angle X-ray Scattering Study on Uniaxial Stretching of Physically Crosslinked Colloidal Crystal Prepared by Silica Nanoparticles Grafted by Hydrogen- Bonding Polymer	840	
	18.10	The effect of thermal treatment on the stress state and evolving microstructure of nano-multilayers: an in-situ high temperature XRD study	312	
	18.30	Fast in situ nanotomography at ID16B ESRF beamline: a new tool for dynamic characterization	179	
	18.50	Direct view on self healing in Fe-Au alloys by synchrotron X-ray nano-tomography	13	

WEDNESDAY SEPTEMBER 20, 2017

Symposium:D1

Session Title: TOMOGRAPHY

Chairp	person: Po	Submission ID		
	11.00	Diffraction, phase and attenuation imaging for ductile damage	362	Keynote
	11.20			
AM2:11.00-13.00	11.40	Higher-order iterative reconstruction of in situ dendritic growth	126	
2:11.00	12.00	Solidification in 4D: from Dendrites to Eutectics	483	
AM	12.20	Synchrotron quantification of strain during shale fracture	610	
	12.40	Study of 3D damage and strain evolution in thin-sheet Al alloy materials by synchrotron laminography and digital volume correlation	1228	
13.00-15.00		LUNCH		
Sessio				

Chairperson: Peter Voorhees and Eric Maire			Submission ID
06	15.00	Shear dominated ductile damage and deformation: in situ laminography measurements	1329
	15.20	A process replicator for in situ synchrotron X-ray characterisation of semi-solid materials processing	594
0-17.	15.40	3D imaging of dislocation at the onset of plasticity in a gold sub-micron crystal	1060
PM1:15.00-17.00	16.00	The effect of strain rate and cenosphere volume fraction on the 3D failure mechanism in epoxy syntactic foams	1954
Δ.	16.20	Nondestructive Materials Characterization in 3D by Laboratory Diffraction Contrast Tomography	2500
	16.40	Imaging strain fields by ptychographic topography	1134
17.00-17.30		COFFE BREAK	

WEDNESDAY SEPTEMBER 20, 2017

Symposium:D1

Session Title: SPECTROSCOPIES-II

Chairperson: Andrea Di Cicco and Eric Collet			Submission ID	
30	17.30	Spectroscopic studies of advanced materials with nanobeams	214	Highlight
	17.50	Applications of synchrotron radiation-based XRD and XAFS in metallic glasses	1597	
.30-19.30	18.10	Structural Phases of Niobium Germanate Thin Films by DFT Assisted EXAFS Analyses	2532	
PM2:17.	18.30	Long-Term Structural Stability of Zn-doped Amorphous SnO2 Thin Films	1733	
	18.50	Evolution of the Solid Electrolyte Interphase in Li-ion electrodes probed by x-ray absorption and photoemission spectroscopy	883	

THURSDAY SEPTEMBER 21, 2017

Symposium:D1

Session Title: TIME-RESOLVED STUDIES

Chairp	erson: Fe	Submission ID		
	11.00	Revealing multiscale photoswitching processes in spin-crossover molecular	109	Keynote
	11.20	materials with ultrafast X-ray science		
13.00	11.40	In situ SAXS registration with nanosecond time resolution	1789	
AM2:11.00-13.00	12.00	In situ real time far field imaging of the (200) X-Ray diffraction peak of a single crystal superalloy during a high temperature creep test	927	
Α	12.20	In-situ synchrotron X-ray diffraction studies on solid-state phase transformations of an advanced high strength steel	607	
	12.40	Time resolved X-ray tomography and imaging for materials processing	993	
13.00-15.00		LUNCH		

Session Title: TOMOGRAPHY & DIFFRACTION TOMOGRAPHY

Chairp	erson: Th	Submission ID		
	15.00	Interplay between banding and the work hardening behaviour in a dual phase steel with improved formability	1592	Highlight
17.00	15.20	Change of misorientation of individual crystallographic planes in fatigue of alloys by diffraction contrast tomography using ultrabright synchrotron radiation	59	
5.00-1	15.40	Study of non-basal slip in Mg-Y alloy by in situ 3D-XRD	137	
PM1:15.00-17.00	16.00	Application of tomography techniques to study stress corrosion cracking of Zr alloys in 3-dimensions	1945	
	16.20	Thermo-mechanical treatments of TiAl alloys studied in situ by high-energy X-ray diffraction	1239	
	16.40	MagDS furnace: an in situ temperature gradient stage for 4D X-ray imaging of directional solidification	830	
17.00-17.30		COFFE BREAK		

THURSDAY SEPTEMBER 21, 2017

Symposium:D1

Session Title: MAGNETIC & FERROELECTRIC MATERIALS

Chairperson: Makis Angelakeris and Maria Katsikini			Submission ID
PM2:17.30-19.30	17.30	Soft-phonon-driven orbital order in CaMn7O12: an x-ray diffuse and inelastic scattering study	928
	17.50	Synchrotron X-ray diffraction studies of NdMn2O5	2125
	18.10	High throughput assessments for accelerated permanent magnet development	1928
	18.30	Spatially resolved investigation of all optical magnetization switching in FeTb alloy	2450
础	18.50	The wonders of Co films intercalated below Graphene	149

FRIDAY SEPTEMBER 22, 2017

Symposium:D1

Session Title: SPECTROMICROSCOPY & IMAGING

Chair	person: A	Submission ID		
AM2:11.00-13.00	11.00	Towards ambient pressure in the characterization of materials at the micro- and nano-scale by scanning photoemission imaging and spectromicroscopy	455	Highlight
	11.20	Ultra-high speed hard X-ray imaging at ESRF: Applications to engineering materials	564	
	11.40	Tomographic coherent diffraction imaging at the ESRF beamline ID10	1087	
	12.00	Measurement of stress field in deformed material at the micron scale: combining Laue Microdiffraction with Digital Image Correlation, and related accuracy	894	
	12.20	Microstructure evolution during fast cooling studied by in situ X-ray techniques	1585	

13.00-15.00

Session Title: **INSTRUMENTATION**

Chairperson: Federico Zontone and Evangelia Moshopoulou			Submission ID
7.00	15.00	Pulse picker for x-ray radiation driven by Surface Acoustic Wave	783
	15.20	Combining a nine-crystal multianalyzer stage with a Pilatus3 X CdTe detector for high resolution X-ray powder diffraction at ESRF-ID22	867
PM1:15.00-17.00	15.40	Sub-50nm Cross-Sectional X-ray Nanodiffraction Analysis of Microstructure and Strain in Thin Films	1099
PM1	16.00	Material Characterization on VESPERS Beamline at CLS	1752
	16.20	Mobile Pulsed Laser Deposition equipment for in situ investigation at Synchrotron Radiation Facilities	2492

LUNCH

17.00-17.30

COFFE BREAK